GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS, IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT, IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.

3, IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE 1-800-422-4133, TWO DAYS BEFORE YOU DIG.

4. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT GRADING AND/OR CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD AND THE CITY OF SAN DIEGO MUNICIPAL CODE AND STORM WATER STANDARDS MANUAL.

5. "PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY. SATISFACTORY TO THE PERMIT- ISSUING AUTHORITY.

6. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARK-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE CITY OF SAN DIEGO FIELD ENGINEERING DIVISION

7. DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE CITY INSPECTOR. 8. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY

9. THE AREA WHICH IS DEFINED AS A NON GRADING AREA AND WHICH IS NOT TO BE DISTURBED SHALL BE STAKED PRIOR TO START OF THE WORK, THE PERMIT APPLICANT AND ALL OF THEIR REPRESENTATIVES OR CONTRACTORS SHALI COMPLY WITH THE REQUIREMENTS FOR PROTECTION OF THIS AREA AS REQUIRED BY ANY APPLICABLE AGENCY, ISSUANCE OF THE CITY'S GRADING PERMIT SHALL NOT RELIEVE THE APPLICANT OR ANY OF THEIR REPRESENTATIVES OR CONTRACTORS FROM COMPLYING WITH ANY STATE OR FEDERAL REQUIREMENTS BY AGENCIES INCLUDING BUT NOT LIMITED TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, CALIFORNIA DEPARTMENT OF FISH AND GAME. COMPLIANCE MAY INCLUDE OBTAINING PERMITS, OTHER AUTHORIZATIONS, OR COMPLIANCE WITH MANDATES BY ANY APPLICABLE STATE OR FEDERAL AGENCY.

GROUND WATER DISCHARGE

THE CITY OF SAN DIEGO.

1. ALL GROUND WATER EXTRACTION AND SIMILAR WASTE DISCHARGES TO SURFACE WATER NOT TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA AN OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF SATE ORDER NO R9-2009-0002 NPDES CAG919002.

2. THE ESTIMATED MAXIMUM DISCHARGE RATES MUST NOT EXCEED THE LIMITS SET IN THE OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL BOARD UNLESS PRIOR NOTIFICATION AND SUBSEQUENT AUTHORIZATION HAS BEEN OBTAINED, AND DISCHARGE OPERATIONS MODIFIED TO ACCOMMODATE THE INCREASED RATES.

3. ALL GROUND WATER EXTRACTIONS AND SIMILAR WASTE DISCHARGES TO SURFACE WATERS NOT TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF STATE ORDER NO R9-2007-0034 NPDES NO. CAG919001.

SHEET INDEX

TITLE SHEET____ _ _ SHEET 1 MAINTENANCE PLAN ____ _ _ _ SHEET 2 MAINTENANCE METHODOLOGIES AND BMP NOTES _____ SHEET 3 MASTER MAINTENANCE PROGRAM (MMP) PROTOCOL REQUIREMENTS AND PEIR ENVIRONMENTAL MITIGATION MEASURES

REFERENCE DRAWINGS

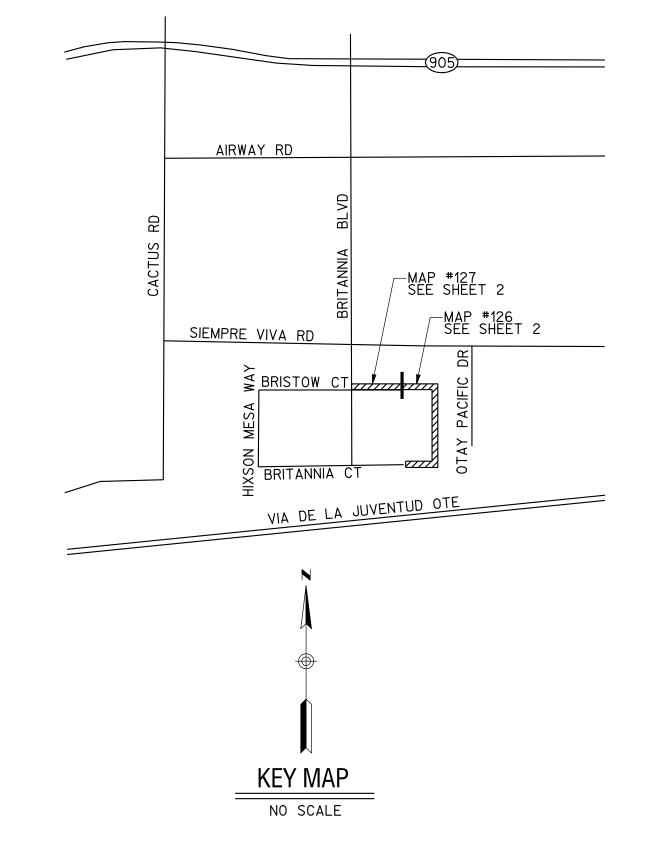
PLANS FOR THE IMPROVEMENT OF BRITANNIA COMMERCE CENTER CITY OF SAN DIEGO DWG NO. 22611-D

MASS GRADING PLANS FOR MARTINEZ RANCH BUSINESS PARK CITY OF SAN DIEGO DWG NO. 33501-D

PUBLIC STORM DRAIN PLAN AND PROFILE FOR BRITANNIA CORPORATE CENTER CITY OF SAN DIEGO DWG NO. 31066-7-D

MAINTENANCE PLANS FOR:

SIEMPRE VIVA AND BRISTOW CREEK CHANNEL MMP MAP#126 & 127



TOPOGRAPHY SOURCE

CITY OF SAN DIEGO SANGIS 2014 2 FOOT CONTOURS, NAVD88

BENCHMARK

US NAVY PROPERTY COR, MON, SW OF INTERSECTION OTAY MESA & HERITAGE ROAD AT COR, CHAIN LINK FENCE ELEV. 504.644 M.S.L.

THE NORTHEAST BRASS PLUG LOCATED IN THE TOP OF CURB AT THE INTERSECTION OF AIRWAY ROAD AND BRITANNIA BOULEVARD ELEV. 498.428 NGVD29

STORM WATER PROTECTION NOTES

1. THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER ☐ CGP RISK LEVEL 1 ☐ CGP LUP TYPE 1 ☐ CGP RISK LEVEL 2 ☐ CGP LUP TYPE 2 ☐ CGP RISK LEVEL 3 □ CGP LUP TYPE 3 2. WDID NO: NOT APPLICABLE 3. CHECK ONE ☐ THIS PROJECT WILL EXCEED THE MAXIMUM DISTURBED AREA LIMIT, THEREFORE A WEATHER TRIGGERED ACTION PLAN (WTAP) IS REQUIRED. ☐ THIS PROJECT WILL FOLLOW PHASED GRADING NOT TO EXCEED FIVE (5) ACRES PER PHASE. ⋈ NOT APPLICABLE 4. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE WPCP

OR SWPPP AS APPLICABLE. 5. WATERSHED: _____TIJUANA_

6. HYDROLOGIC SUB AREA NAME: __TIJUANA VALLEY

7. HYDROLOGIC SUB AREA NUMBER: ____911.12

WATER POLLUTION CONTROL PLAN FOR SIEMPRE VIVA AND BRISTOW CREEK

CHANNEL MAINTENANCE PROJECT PREPARED BY:

McGRATH CONSULTING PO BOX 2488

EL CAJON, CA. 92021 (619) 443-3811

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

CARSON P. EDGINGTON R.C.E. NO. 76519

STREET NAME



SPEED

DATE

STREET DATA TABLE

CLASSIFICATION

5620 FRIARS ROAD SAN DIEGO, CA 92110 619-291-0707 (FAX) 619-291-4165

ADT

(MPH) (VEHICLES) (FT)

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO. MAINTENANCE OF EARTHENED CHANNELS TO REMOVE ACCUMULATED SEDIMENT. VEGETATION

STANDARD SPECIFICATIONS:

PITS070112-02

PITS070112-04

DOCUMENT NO. PITS070112-01

STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2012 EDITION

CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITEBOOK), 2012 EDITION CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL

OF UNIFORM TRAFFIC CONTROL DEVICES, 2012 EDITION

CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. PITS070112-06 CUSTOMARY STANDARD SPECIFICATIONS, 2010 EDITION STANDARD DRAWINGS

DOCUMENT NO. **DESCRIPTION**

PITS070112-03 CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2012 EDITION

CALIFORNIA DEPARTMENT OF TRANSPORTION U.S. PITS070112-05 CUSTOMARY STANDARD PLANS, 2010 EDITION

CALIFORNIA STORMWATER QUALITY ASSOCIATION. CASQA MANUAL STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK PORTAL: CONSTRUCTION, JANUARY 2015

LEGEND

EXISTING IMPROVEMENTS <u>ITEM</u> <u>SYMBOL</u> EXIST. CONTOURS EXIST. LOT LINE EXIST, CURB INLET. EXIST. STORM DRAIN MAIN EXIST. SEWER MAIN. EXIST, WATER MAIN CHANNEL MAINTENANCE AREA ACCESS & LOADING AREA STAGING AREA.

STORM WATER MANAGEMENT BMPs

SYMBOL STREET SWEEPING AND VACUUMING DAILY-"SEE CASQA MANUAL SE-7 SANDBAG BARRIER SEE CASQA MANUAL --SEE CASQA MANUAL SE-10 STORM DRAIN INLET PROTECTION SEE CASQA MANUAL EC-1 SEE CASQA MANUAL EC-2 PRESERVE EXISTING VEGETATION SEE CASQA MANUAL SE-6 SE-8 GRAVEL OR SAND BAG BARRIERS SEE CASQA MANUAL SE-5 FIBER ROLLS OR STRAW WATTLES SEE CASQA MANUAL EC-9 SE-5 SE-6 SE-13 DIVERT RUN-ON FROM SURROUNDING AREAS SEE CASQA MANUAL SE-4 CHECK DAMS -SEE CASQA MANUAL WM-4 SOIL PREVENTION AND CONTROL SOIL WASTE MANAGEMENT SEE CASQA MANUAL WM-5 SEE CASQA MANUAL WM-10 LIQUID WASTE MANAGEMENT SEE CASQA MANUAL WM-9 SANITARY WASTE MANAGEMENT - SEE CASQA MANUAL WM-3 STOCKPILED WASTE MANAGEMENT - SEE CASQA MANUAL WM-1 MATERIAL STORAGE SEE CASQA MANUAL WM-2 MATERIAL HANDLING-SEE CASQA MANUAL NS-9 VEHICLE AND EQUIPMENT FUELING SEE CASQA MANUAL NS-6 ILLICIT CONNECTION / DISCHARGE CONTROL WATER CONSERVATION PRACTICE - SEE CASQA MANUAL NS-1 - SEE CASQA MANUAL NS-2 DEWATTERING OPERATIONS WIND EROSION CONTROL - SEE CASQA MANUAL WE-1 (NOT ALL WILL BE GRAPHICALLY ILLUSTRATED WITHIN SITE MAPS)

CONSTRUCTION SITE STORM WATER PRIORITY: LOW

TITLE SHEET FOR:

SIEMPRE VIVA & BRISTOW CREEK CHANNEL MAP No. 126 & 127

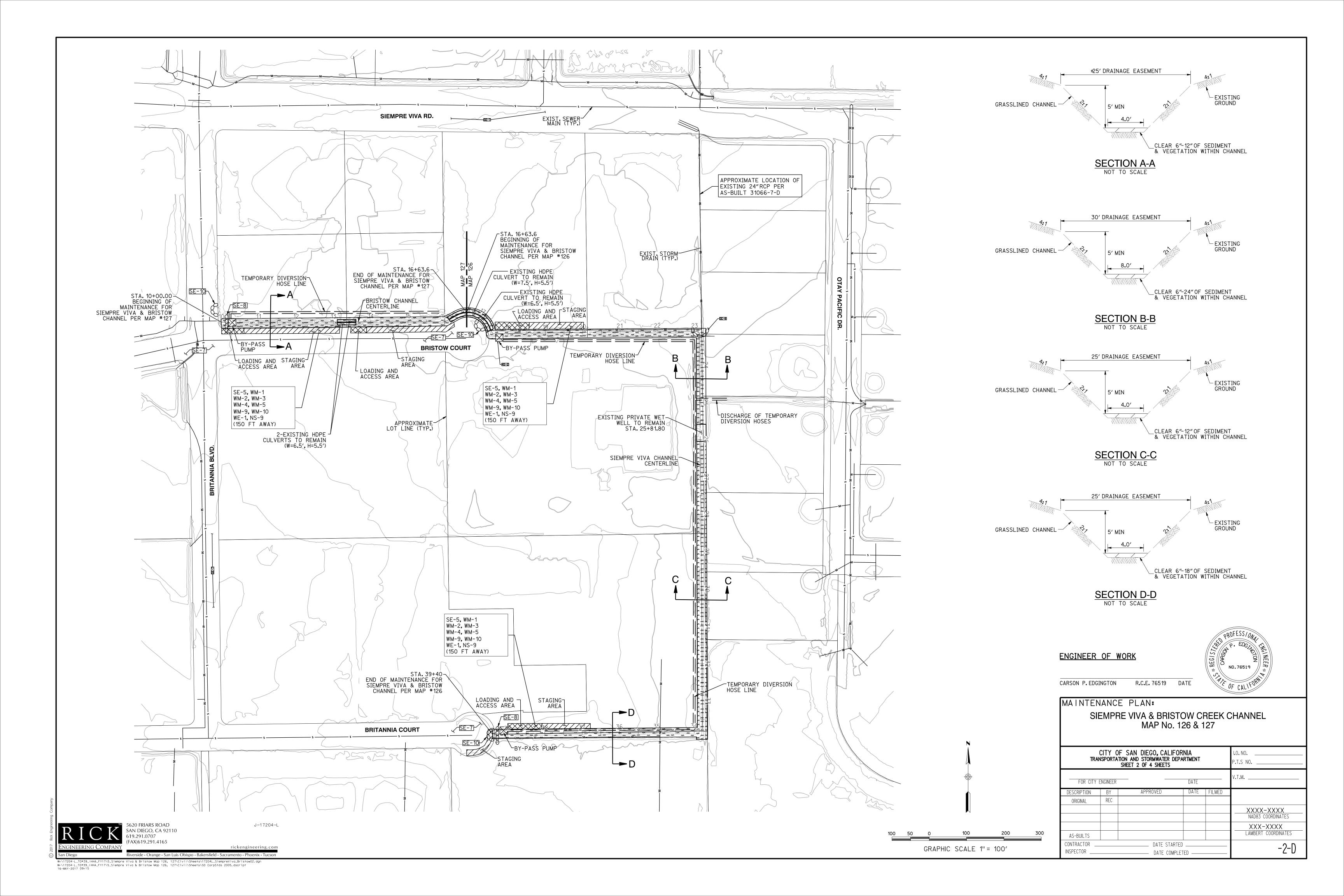
	TY OF	I.O. NO P.T.S NO			
FOR CITY ENGINEER DATE					V.T.M
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	REC				XXXX-XXXX
					NAD83 COORDINATES
					XXX-XXXX
AS-BUILTS					LAMBERT COORDINATES
CONTRACTOR DATE STARTED INSPECTOR DATE COMPLETED					-1-D

CONSTRUCTION CHANGE TABLE WARNING CHANGE DATE EFFECTED OR ADDED SHEET NUMBERS APPROVAL NO. 1/2 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



DEVELOPMENT SERVICES DEPARTMENT

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16-MAY-2017 07:53



MAINTENANCE BMPs

1. ALL BEST MANAGEMENT PRACTICES (BMPs) WILL BE IMPLEMENTED PRIOR TO OR CONCURRENT WITH CONSTRUCTION AND MAINTAINED THROUGHOUT THE PROJECT. A QUALIFIED CONTACT PERSON WILL BE RESPONSIBLE FOR IMPLEMENTING THE WATER POLLUTION CONTROL PLAN (WPCP). ALL WORK SHALL BE COMPLETED BETWEEN SEPTEMBER 15TH AND FEBRUARY 15TH UNLESS AN EXTENSION IS GRANTED IN CONFORMANCE WITH ALL APPLICABLE PERMITS.

2. CONTRACTOR WILL LIMIT ALL CONSTRUCTION RELATED ACTIVITIES TO THE PROJECT FOOTPRINT. 3. EXISTING VEGETATION TO BE PRESERVED IN PLACE SHALL BE CLEARLY MARKED WITH A BUFFER AREA FOLLOWING THE GUIDANCE OF BMP FACT SHEET EC-2.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUCH ON STREETS AND OTHER PAVED SURFACES DUE TO EXCAVATION ACTIVITIES. STREET SWEEPING AND VACUUMING WILL BE MANAGED FOLLOWING THE GUIDANCE OF BMP FACT SHEET SE-7.

5. WEATHER TRIGGERED ACTION PLAN SHALL BE IMPLEMENTED WHEN THERE IS A FORECASTED 50% OR GREATER CHANCE OF LIKELY PRECIPITATION OF 0.1 INCH OR GREATER BY THE NATIONAL WEATHER SERVICE FORECAST.

6. CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER AFTER EACH RUNOFF -PRODUCING RAINFALL.

7. TEMPORARY EROSION OR SEDIMENT CONTROL MEASURES WILL BE REMOVED UPON COMPLETION OF MAINTENANCE UNLESS THEIR REMOVAL WOULD RESULT IN GREATER ENVIRONMENTAL IMPACT THAN LEAVING THEM IN PLACE.

8. HAZARDOUS MATERIALS USED DURING MAINTENANCE WILL NOT BE STORED WITHIN 50 FEET FROM STORM WATER FACILITIES. HAZARDOUS MATERIALS SHALL BE MANAGED AND STORED IN ACCORDANCE WITH APPLICABLE LOCAL. STATE AND FEDERAL REGULATIONS. A REGISTERED FIRST-RESPONSE, PROFESSIONAL HAZARDOUS MATERIALS CLEAN-UP/REMEDIATION SERVICE SHALL BE LOCALLY AVAILABLE ON CALL.

9. THE TREATMENT, STORAGE, AND DISPOSAL OF WASTEWATER DURING THE LIFE OF THE PROJECT MUST BE DONE IN ACCORDANCE WITH WASTE DISCHARGE REQUIREMENTS ESTABLISHED BY THE SAN DIEGO WATER BOARD PURSUANT

10. SPILLS SHALL BE MANAGED FOLLOWING THE GUIDANCE OF BMP FACT SHEET WM-4. SPILL CLEANUP MATERIALS SHALL BE AVAILABLE ONSITE AT ALL TIMES.

11. THE CONTRACTOR SHALL PROVIDE EQUIPMENT NECESSARY TO EXTINGUISH SMALL BRUSH FIRES (FROM SPARKING VEHICLES, ETC.) ON-SITE DURING ALL PHASES OF PROJECT ACTIVITIES, ALONG WITH TRAINED PERSONNEL FOR USE OF SUCH EQUIPMENT.

12. THE CONTRACTOR SHALL MONITOR THE 5 DAY WEATHER FORECAST. IF ANY PRECIPITATION IS FORECASTED, THE SITE SHALL BE SECURED TO PREVENT ANY CONSTRUCTION RELATED MATERIALS FROM LEAVING THE SITE AND ENTERING THE CHANNELS. NO CONSTRUCTION ACTIVITIES SHALL OCCUR DURING RAIN EVENTS.

13. SAMPLING AND ANALYSIS, MONITORING AND REPORTING, AND POST-MAINTENANCE MANAGEMENT OF THE PROJECT SHALL BE CONDUCTED AS DÉTERMINED NECESSARY BY THE CITY OF SAN DIEGO.

14. CHANNELS WILL BE INSPECTED WITHIN 72 HOURS OF THE FIRST 2-YEAR STORM FOLLOWING MAINTENANCE. IF SUBSTANTIAL EROSION HAS OCCURRED, EROSION CONTROL MEASURES RECOMMENDED BY THE FIELD ENGINEER WILL BE IMPLEMENTED TO REMEDIATE EROSION AREAS AND TO MINIMIZE FUTURE EROSION.

15. CONTRACTOR SHALL PROVIDE TRAINING FOR ALL PERSONNEL RESPONSIBLE FOR THE PROPER INSTALLATION, INSPECTION, AND MAINTENANCE OF ONSITE BMPs.

16. THE QUALIFIED CONTACT PERSON WILL ASSIGN A MONITOR FOR DAILY INSPECTION OF THE BMPs EACH MORNING. THE MONITOR WILL CHECK THE NATIONAL WEATHER SERVICE FORECAST, COMPLETE BMP INSPECTION CHECKLIST, PERFORM ANY NECESSARY BMP MAINTENANCE/REPAIRS, AND REPORT THE RESULTS TO THE QUALIFIED CONTACT PERSON. COMPLETED INSPECTION CHECKLIST WILL BE KEPT WITH THE WPCP.

17. PREVIOUSLY UNDISTURBED STAGING AREAS WILL BE REVEGETATED WITHIN 30 DAYS OF COMPLETION OF MAINTENANCE ACTIVITIES. THE REVEGETATED AREAS WILL BE MONITORED FOR A PERIODS OF NOT LESS THAN 25 MONTHS AFTER PLANTING.

18. FINAL LOCATION OF CHANNEL CENTERLINE WILL BE DETERMINED IN THE FIELD AND COORDINATED WITH THE NECESSARY PROJECT SPECIALIST (BIOLOGIST, HISTORICAL MONITOR, ETC.)

SIEMPRE VIVA & BRISTOW CREEK CHANNEL - MAP NO. 126 IMP MAINTENANCE METHODOLOGY TABLE

FACILITY/CHANNEL	SIEMPRE VIVA & BRISTOW - MAP NO. 126 SIEMPRE VIVA & BRISTOW CT PARALLEL TO OTAY PACIFIC DR, ENDING AT SIEMPRE VIVA & BRITANNIA CT				
DIMENSIONS	TRAPEZOIDAL EARTHEN CHANNEL 2320' LENGTH APPROX. 10'-25' TOP WIDTH VARIES 4'-8' BOTTOM WIDTH VARIES 5'-6' IN DEPTH 1'-3' OF SEDIMENT MAXIMUM CUBIC YARDS OF MATERIAL REMOVAL: 40,000				
MAINTENANCE METHOD	MECHANIZED SEDIMENT & VEGETATION REMOVAL				
EQUIPMENT(EQUIPMENT WILL BE EQUIVALENT OR SMALLER IN SIZE/TYPE)	* GRADALL (5100 SERIES) * TRACK STEER (CAT 289D) * EXCAVATOR (CAT 349) * FRONT-END LOADER (CAT 966) * VACTOR * DUMP TRUCK(S) (12 YD) * 6"PUMPS OR SMALLER * TOW BEHIND CONCRETE MIXER * HAND TOOLS				
SCHEDULE	IN CHANNEL MAINTENANCE WILL TAKE APPROXIMATELY 30 DAYS- 6:00 AM TO 6:00 PM				
STAFFING	10 TO 14 PEOPLE				
MAINTENANCE PROCEDL	·				
CHANNEL SEQUENCE	STATION 16+63.6 TO 39+40				
ACCESS & LOADING AREA(S)	ACCESS AREA: (STATION 38+53.5) TRACK STEER DRIVES INTO CHANNEL VIA EARTHEN RAMP. LOADING AREA: (STATION 37+42.8) GRADALL/EXCAVATOR SITS ABOVE CHANNEL AT 1) 7599 BRISTOW CT, 2)7598 BRITANNIA CT & DRAINAGE CHANNEL LOCATED AT 2745 OTAY PACIFIC DR, & LOADS TRUCKS.				
STAGING & STOCKPILE AREA	EQUIPMENT AND TRUCKS WILL BE STAGED ON ASPHALT PAVED STREET AND ON EASEMENT AT 1) 7599 BRISTOW CT, 2)7598 BRITANNIA CT & DRAINAGE CHANNEL LOCATED AT 2745 OTAY PACIFIC DR. ALL MATERIALS WILL BE HAULED IMMEDIATELY TO A LEGAL DISPOSAL SITE (MIRAMAR LANDFILL).				
METHODOLOGY	1. DRY WEATHER FLOW DIVERSION BERM (SANDBAGS/TIGER DAMS) & DIVERSION PUMP(S) WILL BE PLACED AT WESTERN LIMITS OF CHANNEL CLEANING. DIVERSION PIPES WILL BE PLACED ON SOUTHERN SIDE OF THE CHANNEL AND EXTENDED TO A DISCHARGE AREA EAST OF THE PROJECT MAINTENANCE LIMITS. 2. GRADALL/EXCAVATOR WILL ACCESS THE SIDE OF THE CHANNEL TRACK STEER ENTER/EXIT(S) CHANNEL AT ACCESS & LOADING AREA(S). 3. TRACK STEER PUSHES VEGETATION & SEDIMENT TO GRADALL/EXCAVATOR, STATIONED OUTSIDE OF CHANNEL, WITHIN ACCESS & LOADING AREA(S). 4. EXCAVATOR/GRADALL SCOOPS MATERIAL & LOADS MATERIAL INTO WAITING DUMP TRUCKS, LOCATED AT BOTTOM OF ACCESS RAMP(S). 5. DUMP TRUCKS HAUL MATERIAL TO LEGAL DISPOSAL SITE. 6. TRACK STEER EXITS CHANNEL. 7. VACTOR ALL HEADWALL OUTFALLS DISCHARGING INTO THE CHANNEL. 8. NECESSARY CONCRETE REPAIRS WILL BE PERFORMED AT IDENTIFIED HEADWALLS AND OTHER DAMAGED AREAS. 9. DRY WEATHER DIVERSION BERM, DIVERSION PUMP(S) & HOSES REMOVED.				
POST-MAINTENANCE	1. DEMOBILIZE EQUIPMENT 2. REMOVE TEMPORARY CONSTRUCTION BMPS.				
OTHER NOTES	1. SWEEPER SWEEPS ADJACENT PUBLIC RIGHTS-OF-WAY AND IMMEDIATE TRUCK LOADING SITES AT PROJECT'S COMPLETION. 2. EQUIPMENT FUELED OUTSIDE CHANNEL & LOCATED AT LEAST 150' FROM WATERS OF US/STATE. 3. DEWATERING PUMP(S) MAY BE USED AT VARIOUS LOCATIONS TO REMOVE PONDED WATER PRIOR TO EQUIPMENT ENTERING THE CHANNEL. WATER WILL BE DISCHARGED JUST EAST OF THE PROJECT MAINTENANCE LIMITS. 4. HANDWORK WILL BE PERFORMED IN AREAS WHERE				
	THE CHANNEL WIDTH RESTRICTS THE USE OF MECHANIZED EQUIPMENT.				

SIEMPRE VIVA & BRISTOW CREEK CHANNEL - MAP NO. 127 IMP MAINTENANCE METHODOLOGY TABLE

FACILITY/CHANNEL	SIEMPRE VIVA & BISTOW - MAP NO. 127 SIEMPRE VIVA & BRISTOW CT TO MAP 126			
DIMENSIONS	TRAPEZOIDAL EARTHEN CHANNEL 600' LENGTH APPROX. 10'-25' TOP WIDTH 4' BOTTOM WIDTH 6' IN DEPTH 1'-3' OF SEDIMENT MAXIMUM CUBIC YARDS OF MATERIAL REMOVAL: 2,50			
MAINTENANCE METHOD	MECHANIZED SEDIMENT & VEGETATION REMOVAL			
EQUIPMENT(EQUIPMENT WILL BE EQUIVALENT OR SMALLER IN SIZE/TYPE)	* GRADALL (5100 SERIES) * TRACK STEER (CAT 289D) * EXCAVATOR (CAT 349) * FRONT-END LOADER (CAT 966) * VACTOR * DUMP TRUCKS(S) (12 YD) * 69/32 PUMPS OR SMALLER * TOW BEHIND CONCRETE MIXER * HAND TOOLS			
SCHEDULE	IN CHANNEL MAINTENANCE WILL TAKE APPROXIMATEL 45 DAYS- 6:00 AM TO 6:00 PM			
STAFFING	10 TO 14 PEOPLE			
MAINTENANCE PROCEDL	JRE			
CHANNEL SEQUENCE	STATION 10+00 TO 16+63.6			
ACCESS & LOADING AREA(S)	ACCESS AREA: (STATION 10+31 AND 16+67.4) TRACK STEER DRIVES INTO CHANNEL VIA EARTHEN RAMP. LOADING AREA: (STATION 11+86 AND 14+83.8) GRADALL/EXCAVATOR SITS ABOVE CHANNEL AT 7525 BRISTOW CT & IN FRONT OF 7560 BRISTOW CT, AND LOADS TRUCKS.			
STAGING & STOCKPILE AREA	EQUIPMENT AND TRUCKS WILL BE STAGED ON ASPHAPAVED STREET AND ON EASEMENT AT 7525 BRISTOW CT & INFRONT OF 7560 BRISTOW CT. ALL MATERIAL WILL BE HAULED IMMEDIATELY TO A LEGAL DISPOSASITE (MIRAMAR LANDFILL).			
METHODOLOGY	1. DRY WEATHER FLOW DIVERSION BERM (SANDBAGS/TIGER DAMS) & DIVERSION PUMP(S) WIL BE PLACED AT WESTERN LIMITS OF CHANNEL CLEANING. DIVERSION PIPES WILL BE PLACED ON SOUTHERN SIDE OF THE CHANNEL AND EXTENDED A DISCHARGE AREA EAST OF THE PROJECT MAINTENANCE LIMITS. 2. GRADALL/EXCAVATOR WILL ACCESS THE SIDE OF THE CHANNEL TRACK STEER ENTER/EXIT(S) CHANNI AT ACCESS & LOADING AREA(S). 3. TRACK STEER PUSHES VEGETATION & SEDIMENT TO GRADALL/EXCAVATOR, STATIONED OUTSIDE OF CHANNEL, WITHIN ACCESS & LOADING AREA(S). 4. EXCAVATOR/GRADALL SCOOPS MATERIAL & LOADS MATERIAL INTO WAITING DUMP TRUCKS, LOCATED BOTTOM OF ACCESS RAMP(S). 5. DUMP TRUCKS HAUL MATERIAL TO LEGAL DISPOSAL SITE. 6. TRACK STEER EXITS CHANNEL. 7. VACTOR ALL HEADWALL OUTFALLS DISCHARGING INTO THE CHANNEL. 8. NECESSARY CONCRETE REPAIRS WILL BE PERFORMED AT IDENTIFIED HEADWALLS AND OTHE DAMAGED AREAS. DRY WEATHER DIVERSION BERM, DIVERSION PUMP(S) HOSES REMOVED.			
POST-MAINTENANCE	1. DEMOBILIZE EQUIPMENT 2. REMOVE TEMPORARY CONSTRUCTION BMPS.			
OTHER NOTES	1. SWEEPER SWEEPS ADJACENT PUBLIC RIGHTS-OF-WAY AND IMMEDIATE TRUCK LOADING SITES AT PROJECT'S COMPLETION. 2. EQUIPMENT FUELED OUTSIDE CHANNEL & LOCATED AT LEAST 150' FROM WATERS OF US/STATE. DEWATERING PUMP(S) MAY BE USED AT VARIOUS LOCATIONS TO REMOVE PONDED WATER PRIOR TO EQUIPMENT ENTERING THE CHANNEL. WATER WILL BE DISCHARGED JUST EAST OF THE PROJECT MAINTENANCE LIMITS.			

ENGINEER OF WORK

CARSON P. EDGINGTON R.C.E. 76519 DATE

MAINTENANCE METHODOLOGIES AND BMP NOTES: SIEMPRE VIVA & BRISTOW CREEK CHANNEL MAP No. 126 & 127

CITY OF SAN DIEGO, CALIFORNIA TRANSPORTATION AND STORMWATER DEPARTMENT SHEET 3 OF 4 SHEETS					I.O. NO P.T.S NO
FOR CITY	ENGINEER		DATE		V.T.M
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	REC				
					XXXX-XXXX
					NAD83 COORDINATES
					XXX-XXXX
AS-BUILTS					LAMBERT COORDINATES
CONTRACTOR _	CONTRACTOR DATE STARTED				_7_N
INSPECTOR	INSPECTOR DATE COMPLETED			J_0_0	

J-17204-L

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MASTER MAINTENANCE PROGRAM (MMP) PROTOCOL REQUIREMENTS:

- 1. BIO-1: RESTRICT VEHICLES TO ACCESS DESIGNATED IN THE MMP.
- 2. BIO-2: FLAG AND DELINEATE ALL SENSITIVE BIOLOGICAL RESOURCES TO REMAIN WITHIN OR ADJACENT TO MAINTENANCE AREA PRIOR TO INITIATION OF MAINTENANCE ACTIVITIES IN ACCORDANCE WITH THE SITE SPECIFIC INDIVIDUAL BIOLOGICAL ASSESSMENT (IBA), INDIVIDUAL HYDROLOGY AND HYDRAULIC ASSESSMENT (IHHA), AND/OR INDIVIDUAL MAINTENANCE PLAN (IMP) PREPARED FOR THE WORK.
- 3. BIO-3: CONDUCT A PRE-MAINTENANCE MEETING ON SITE PRIOR TO THE START OF ANY MAINTENANCE ACTIVITY THAT OCCURS WITHIN OR ADJACENT TO SENSITIVE BIOLOGICAL RESOURCES, THE PRE-MAINTENANCE MEETING SHALL INCLUDE A QUALIFIED BIOLOGIST, FIELD ENGINEER, PLANNER, EQUIPMENT OPERATORS/SUPERINTENDENT AND OTHER KEY PERSONNEL CONDUCTING OR INVOLVED IN CHANNEL MAINTENANCE ACTIVITIES. THE QUALIFIED BIOLOGIST SHALL POINT OUT OR IDENTIFY SENSITIVE BIOLOGICAL RESOURCES TO BE AVOIDED DURING MAINTENANCE, FLAG/DELINEATE SENSITIVE RESOURCES TO BE AVOIDED, REVIEW SPECIFIC MEASURES TO PROTECT SENSITIVE BIOLOGICAL RESOURCES AS NECESSARY, THE BIOLOGIST SHALL ALSO REVIEW THE PROPOSED EROSION CONTROL METHODS TO CONFIRM THEY WILL NOT POSE RISK TO WILDLIFE (E.G., NON-BIODEGRADABLE BLANKETS MAY ENTANGLE WILDLIFE).
- 4. BIO-4: AVOID THE INTRODUCTION OF INVASIVE PLANT SPECIES WITH PHYSICAL EROSION CONTROL MEASURES.
- 5. BIO-5: CONDUCT APPROPRIATE PRE-MAINTENANCE SURVEYS IF MAINTENANCE IS PROPOSED DURING THE BREEDING SEASON OF A SENSITIVE ANIMAL SPECIES (JANUARY 15 TO AUGUST 31). IF SENSITIVE ANIMAL SPECIES COVERED BY THE PROGRAM ENVIRONMENTAL IMPACT REPORT (PEIR) ARE IDENTIFIED, THEN APPLICABLE MEASURES FROM THE MITIGATION MONITORING AND REPORTING PLAN (MMRP) SHALL BE IMPLÉMENTED UNDER THE DIRECTION OF A QUALIFIED BIOLOGIST TO AVOID SIGNIFICANT DIRECT AND/OR INDIRECT IMPACTS TO IDENTIFIED SENSITIVE ANIMAL SPECIES. IF SENSITIVE ANIMAL SPECIES ARE IDENTIFIED DURING PRE-MAINTENANCE SURVEYS THAT ARE NOT COVERED BY THE PEIR, SWD SHALL CONTACT THE APPROPRIATE WILDLIFE AGENCIES AND ADDITIONAL ENVIRONMENTAL REVIEW UNDER CEQA WILL BE REQUIRED.
- 6. BIO-6: REMOVE ARUNDO THROUGH ONE, OR A COMBINATION OF, THE FOLLOWING METHODS: (1) FOLIAR SPRAY (SPRAYING HERBICIDE ON LEAVES AND STEMS WITHOUT CUTTING FIRST) WHEN ARUNDO OCCURS IN MONOTYPIC STANDS. OR (2) CUT AND PAINT (CUTTING STEMS CLOSE TO THE GROUND AND SPRAYING OR PAINTING HERBICIDE ON CUT STEM SURFACE) WHEN ARUNDO IS INTERMIXED WITH NATIVE PLANTS, WHEN SEDIMENT SUPPORTING ARRUNDO MUST BE REMOVED, THE SEDIMENT SHALL BE EXCAVATED TO A DEPTH SUFFICIENT TO REMOVE THE RHIZOMES, WHEREVER FEASIBLE. FOLLOWING REMOVAL OF SEDIMENT CONTAINING RHIZOMES, LOOSE RHIZOME MATERIAL SHALL BE REMOVED FROM THE CHANNEL AND DISPOSED OFFSITE, AFTER THE INITIAL TREATMENT, THE AREA OF REMOVAL SHALL BE INSPECTED ON A QUARTERLY BASIS FOR UP TWO YEARS, OR UNTIL NO RESPROUTING IS OBSERVED DURING AN INSPECTION. IF RESPROUTING IS OBSERVED, THE CUT AND PAINT METHOD SHALL BE APPLIED TO ALL RESPROUTS.
- 7. BIO-7: AVOID MECHANIZED MAINTENANCE WITHIN 300 FEET OF A COOPER'S HAWK NEST, 900 FEET OF A NORTHERN HARRIER'S NEST, OR 500 FEET OF ANY OTHER RAPTOR'S NEST UNTIL ANY FLEDGLINGS HAVE
- 8.WM-1: DISPOSE AND TRANSPORT COMPOSTABLE GREEN WASTE MATERIAL TO AN APPROVED COMPOSTING FACILITY, IF AVAILABLE.
- 9. WM-2: RE-USE EXCAVATED MATERIAL, WHENEVER POSSIBLE, AS FILL MATERIAL, AGGREGATE SAND REPLENISHMENT, OR OTHER RAW MATERIAL USES. RE-USED MATERIAL (AGGREGATES, SOIL, SAND OR SILT) SHALL BE DOCUMENTED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- 10. WM-3: SEPARATE WASTE TIRES FROM EXCAVATED MATERIAL AND TRANSPORT THEM TO AN APPROPRIATE DISPOSAL FACILITY, IF MORE THAN NINE TIRES ARE IN A VEHICLE OR WASTE BIN AT ANY ONE TIME, THEY SHALL BE TRANSPORTED UNDER A COMPLETED COMPREHENSIVE TRIP LOG (CTL) TO DOCUMENT THAT THE TIRES WERE TAKEN TO AN APPROPRIATE DISPOSAL FACILITY.
- 11. WM-4: LOG AND TRANSPORT ANY HAZARDOUS MATERIALS ENCOUNTERED DURING MAINTENANCE TO A HAZARDOUS WASTE STORAGE, RECYCLING, TREATMENT OR DISPOSAL FACILITY. PERSONNEL HANDLING HAZARDOUS MATERIALS SHALL HAVE THE APPROPRIATE TRAINING TO HANDLE, STORE, TRANSPORT, AND/OR DISPOSE THE MATERIAL. HAZARDOUS MATERIALS (E.G., MACHINE OIL, MERCURY SWITCHES, AND REFRIGERANT GASES) SHALL BE REMOVED FROM APPLIANCES AND DISPOSED IN ACCORDANCE WITH THIS PROTOCOL.
- 12. WQ-2: PREVENT OFF-SITE SEDIMENT TRANSPORT DURING MAINTENANCE THROUGH THE USE OF EROSION AND SEDIMENT CONTROLS WITHIN STORM WATER FACILITIES, ALONG ACCESS ROUTES AND AROUND STOCKPILE/STAGING AREAS, INSTALL BMPS SUCH AS SILT FENCES, FIBER ROLLS; GRAVEL BAGS; TEMPORARY SEDIMENT BASINS; STABILIZED MAINTENANCE ACCESS POINTS (E.G., SHAKER PLATES); CONTAINMENT BARRIERS (E.G., SILT FENCE, FIBER ROLLS AND/OR BERMS) FOR MATERIAL STOCKPILES; AND PROPERLY FITTED COVERS FOR MATERIAL TRANSPORT VEHICLES, REMOVE TEMPORARY EROSION OR SEDIMENT CONTROL MEASURES UPON COMPLETION OF MAINTENANCE UNLESS THEIR REMOVAL WOULD RESULT IN GREATER ENVIRONMENTAL IMPACT THAN LEAVING THEM IN PLACE.
- 13. WQ-3: STORE BMP MATERIALS ON-SITE TO PROVIDE COMPLETE PROTECTION OF EXPOSED AREAS AND PREVENT OFF-SITE SEDIMENT TRANSPORT.
- 14. WQ-4: PROVIDE TRAINING FOR PERSONNEL RESPONSIBLE FOR THE PROPER INSTALLATION, INSPECTION, AND MAINTENANCE OF ON-SITE BMPS.
- 15. WQ-7: AVOID STORING HAZARDOUS MATERIALS USED DURING MAINTENANCE WITHIN 50 FEET FROM STORM WATER FACILITIES. HAZARDOUS MATERIALS SHALL BE MANAGED AND STORED IN ACCORDANCE WITH APPLICABLE LOCAL,
- 16. WQ-8: STORE MAINTENANCE-RELATED TRASH IN AREAS AT LEAST 50 FEET FROM STORM WATER FACILITIES. AND REMOVE ANY TRASH RECEPTACLES REGULARLY (AT LEAST WEEKLY).
- 17. WQ-10: INSPECT EARTHEN-BOTTOM STORM WATER FACILITIES WITHIN 30 DAYS OF THE FIRST 2-YEAR STORM FOLLOWING MAINTENANCE. IMPLEMENT EROSION CONTROL MEASURES RECOMMENDED BY THE FIELD ENGINEER, SUCH AS FIBER BLANKETS, TO REMEDIATE SUBSTANTIAL EROSION WHICH HAS OCCURRED AND TO MINIMIZE FUTURE EROSION.

PEIR ENVIRONMENTAL MITIGATION MEASURES

GENERAL MITIGATION MEASURE 1 OF THE MITIGATION MONITORING AND REPORTING PROGRAM (MMRP) ADOPTED FOR THE MMP REQUIRES ALL OF THE MITIGATION MEASURES IDENTIFIED IN THE PROGRAM EIR (PEIR) BE INCLUDED WITH THE MAINTENANCE DOCUMENTS AND CONTRACT SPECIFICATIONS FOR EACH MAINTENANCE ACTIVITY. TO FULFILL THIS REQUIREMENT, THE MMRP IS INCLUDED IN ITS ENTIRETY AS ATTACHMENT 1 TO THIS IMP.

ADDITIONAL MAINTENANCE REQUIREMENTS

- 1. THE CITY SHALL NOTIFY CALIFORNIA DEPARTMENT OF FISH & WILDLIFE (CDFW), IN WRITING, AT LEAST FIVE DAYS PRIOR TO INITIATION OF CONSTRUCTION PRIOR TO COMPLETION OF CONSTRUCTION (PROJECT) ACTIVITIES NOTIFICATION SHALL BE SENT TO CDFW'S SOUTH COAST OFFICE, ATTN: STREAMBED ALTERATION PROGRAM-SM# 1600-2011-0271-R5.
- 2. AVOID THE INTRODUCTION OF INVASIVE PLANT SPECIES WITH PHYSICAL EROSION CONTROL MEASURES.
- 3. PRIOR TO COMMENCING ANY MAINTENANCE ACTIVITY WHICH MAY IMPACT SENSITIVE BIOLOGICAL RESOURCES. THE MONITORING BIOLOGIST SHALL VERIFY THAT THE FOLLOWING ACTIONS HAVE BEEN TAKEN, AS APPROPRIATE:
 - -FENCING, FLAGGING, SIGNAGE OR OTHER MEANS TO PROTECT SENSITIVE RESOURCES TO REMAIN AFTER MAINTENANCE HAS BEEN IMPLEMENTED;
 - -NOISE ATTENUATION MEASURES NEEDED TO PROTECT SENSITIVE WILDLIFE ARE IN PLACE AND EFFECTIVE;
 - -NESTING BIRDS HAVE BEEN IDENTIFIED AND NECESSARY MAINTENANCE SETBACKS HAVE BEEN ESTABLISHED IF MAINTENANCE IS TO OCCUR BETWEEN JANUARY 15 AND AUGUST 31.
- 4. IF ANY WILDLIFE IS ENCOUNTERED DURING THE COURSE OF MAINTENANCE, SAID WILDLIFE SHALL BE ALLOWED TO LEAVE THE MAINTENANCE AREA UNHARMED.

ENGINEER OF WORK

CARSON P. EDGINGTON R.C.E. 76519 DATE

MASTER MAINTENANCE PROGRAM (MMP) PROTOCOL REQUIREMENTS AND PEIR ENVIRONMENTAL MITIGATION MEASURES:

SIEMPRE VIVA & BRISTOW CREEK CHANNEL MAP No. 126 & 127	
CITY OF CAN DIFCO CALIFORNIA	ł

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620 FRIARS ROAD SAN DIEGO, CA 92110 Engineering Company

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